8. (Original). The apparatus as recited in claim 1, wherein the calibration module includes a reference sensor of an optical photodiode type.

9. (Original). The apparatus as recited in claim 8, wherein the test sensor has a liner slope of responsivity in the ultraviolet range.

10. (Original). The apparatus as recited in claim 1, wherein the controller includes a processing unit and memory that stores programming instructions, that, when read by the processing unit, causes the controller to function to: receive a set-point input for the desired irradiance signal; and begin a testing procedure including the steps of: outputting a ballast control signal to the ballast based upon the set-point; receiving the irradiance signal input from the test module; adjusting the ballast control signal based upon gain between the set-point and the irradiance signal; outputting an adjusted ballast control signal; and repeating testing procedure steps for a desired period of time.

11. (Original). The apparatus as recited in claim 1, further including a temperature sensor connected to the controller for monitoring the temperature within the test chamber, generating a temperature signal, and transmitting the temperature signal to the controller for adjusting the heater control signal in order to maintain the desired temperature within the test chamber.

12. (Original). The apparatus as recited in claim 1, further including a temperature sensor connected to the controller for monitoring the temperature within the test chamber, generating a temperature signal, and transmitting the temperature signal to the controller for adjusting the ballast control signal in order to maintain the desired irradiance within the test chamber.